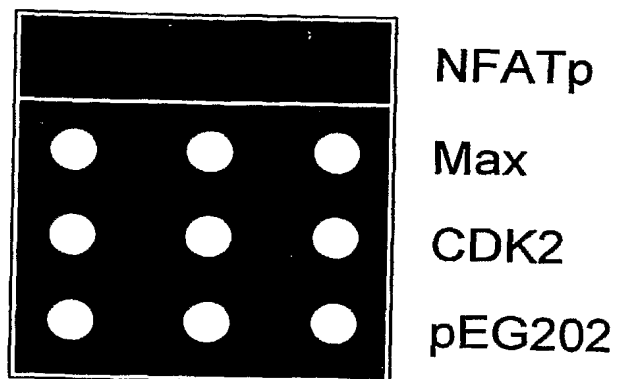
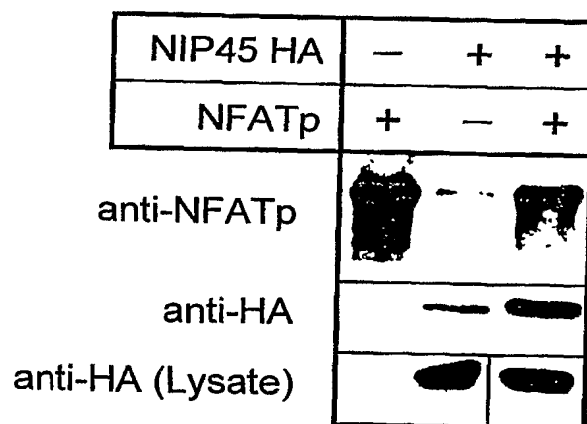
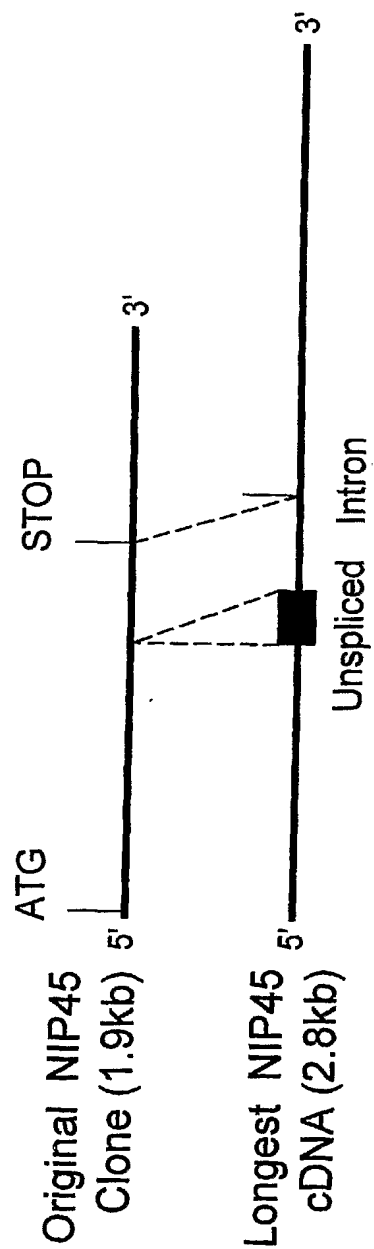


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*Fig. 1**Fig. 2*

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*Fig. 3*

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ACAGTGTGGGAGATGGCGGAACCACTGAGGGGACGTGGTCCGAGGTCC	48
TGTCACACCCTCTACCGCCTTGGTGACTCCCCTGCACCAGGCTCCAGG	
<u>M A E P L R G R G P R S</u>	12
CGCGGTGGCCGAGGCGCTCGGAGAGCCCGAGGCGCCCGTGGCCGGTGT	96
GCGCCACCGGCTCCGCGAGCCTCTCGGGCTCCGCGGGCACC GGCCACA	
<u>R G G R G A R R A R G A R G R C</u>	28
CCTCGCGCCCGGCAGTCTCCGGCTAGGCTCATTCAGACACCGTGCTT	144
GGAGCGCGGGCCGTCAGAGGCCGATCCGAGTAAGGTCTGTGGCACGAA	
<u>P R A R Q S P A R L I P D T V L</u>	44
GTGGACTTGGTCAGTGACAGCGACGAAGAGGTCTTGGAAGTCGCAGAC	192
CACCTGAACCAGTCACTGTCGCTGCTTCTCCAGAACCTTCAGCGTCTG	
<u>V D L V S D S D E E V L E V A D</u>	60
CCAGTAGAGGTGCCGGTCGCCCCGCTCCCCGCGCCGGCTAAACCTGAG	240
GGTCATCTCCACGGCCAGCGGGCGGAGGGGCGCGGCCGATTTGGACTC	
<u>P V E V P V A R L P A P A K P E</u>	76
CAGGACAGCGACAGTGACAGTGAAGGGGCGGCCGAGGGGCCTGCGGGA	288
GTCCTGTCGCTGTCACTGTCACTTCCCCGCCGGCTCCCCGGACGCCCT	
<u>Q D S D S D S E G A A E G P A G</u>	92
GCCCCGCGTACATTGGTGCGACGGCGGGCGGGCGGGCTGCTGGATCCC	336
CGGGGCGCATGTAACCACGCTGCCGCCGCCGCCGCCGACGACCTAGGG	
<u>A P R T L V R R R R R R L L D P</u>	108
GGAGAGGCGCCGGTGGTCCCAGTGTACTCCGGGAAGGTACAGAGCAGC	384
CCTCTCCGCGGCCACCAGGGTCACATGAGGCCCTTCCATGTCTCGTCG	
<u>G E A P V V P V Y S G K V Q S S</u>	124
CTCAACCTCATTCAGATAATTCATCCCTCTTGAAACTGTGCCCTTCA	432
GAGTTGGAGTAAGGTCTATTAAGTAGGGAGAACTTTGACACGGGAAGT	
<u>L N L I P D N S S L L K L C P S</u>	140
GAGCCTGAAGATGAGGCAGATCTGACAAATTCTGGCAGTTCTCCCTCT	480
CTCGGACTTCTACTCCGTCTAGACTGTTTAAGACCGTCAAGAGGGAGA	
<u>E P E D E A D L T N S G S S P S</u>	156

Fig. 4A

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GAGGATGATGCCCTGCCTTCAGGTTCTCCCTGGAGAAAGAAGCTCAGA	528
CTCCTACTACGGGACGGAAGTCCAAGAGGGACCTCTTTCTTCGAGTCT	
E D D A L P S G S P W R K K L R	172
AAGAAGTGTGAGAAAGAAGAAAAGAAAATGGAAGAGTTTCCGGACCAG	576
TTCTTCACACTCTTTCTTCTTTTCTTTTACCTTCTCAAAGGCCTGGTC	
K K C E K E E K K M E E F P D Q	188
GACATCTCTCCTTTGCCCCAACCTTCGTCAAGGAACAAAAGCAGAAAG	624
CTGTAGAGAGGAAACGGGGTTGGAAGCAGTTCCTTGTTTTTCGTCTTTC	
D I S P L P Q P S S R N K S R K	204
CATACGGAGGCGCTCCAGAAGCTAAGGGAAGTGAACAAGCGTCTCCAA	672
GTATGCCTCCGCGAGGTCTTCGATTCCCTTCACTTGTTTCGCAGAGGTT	
H T E A L Q K L R E V N K R L Q	220
GATCTCCGCTCCTGCCTGAGCCCCAAGCAGCACCAGAGTCCAGCCCTT	720
CTAGAGGCGAGGACGGACTCGGGGTTCGTTCGTGGTCTCAGGTCGGGAA	
D L R S C L S P K Q H Q S P A L	236
CAGAGCACAGATGATGAGGTGGTCCTAGTGGAAGGGCCTGTCTTGCCA	768
GTCTCGTGTCTACTACTCCACCAGGATCACCTTCCCGGACAGAACGGT	
Q S T D D E V V L V E G P V L P	252
CAGAGCTCTCGACTCTTTACACTCAAGATCCGGTGCCGGGCTGACCTA	816
GTCTCGAGAGCTGAGAAATGTGAGTTCTAGGCCACGGCCCCGACTGGAT	
Q S S R L F T L K I R C R A D L	268
GTGAGACTGCCTGTCAGGATGTCGGAGCCCCTTCAGAATGTGGTGGAT	864
CACTCTGACGGACAGTCCTACAGCCTCGGGGAAGTCTTACACCACCTA	
V R L P V R M S E P L Q N V V D	284
CACATGGCCAATCATCTTGGGGTGTCTCCAAACAGGATTCTTTTGCTT	912
GTGTACCGGTTAGTAGAACCCACAGAGGTTTGTCTTAAGAAAACGAA	
H M A N H L G V S P N R I L L L	316
TTTGGAGAGAGTGAAGTGTCTCCTACTGCCACCCCTAGTACCCTAAAG	960
AAACCTCTCTCACTTGACAGAGGATGACGGTGGGGATCATGGGATTTTC	
F G E S E L S P T A T P S T L K	316

Fig. 4B

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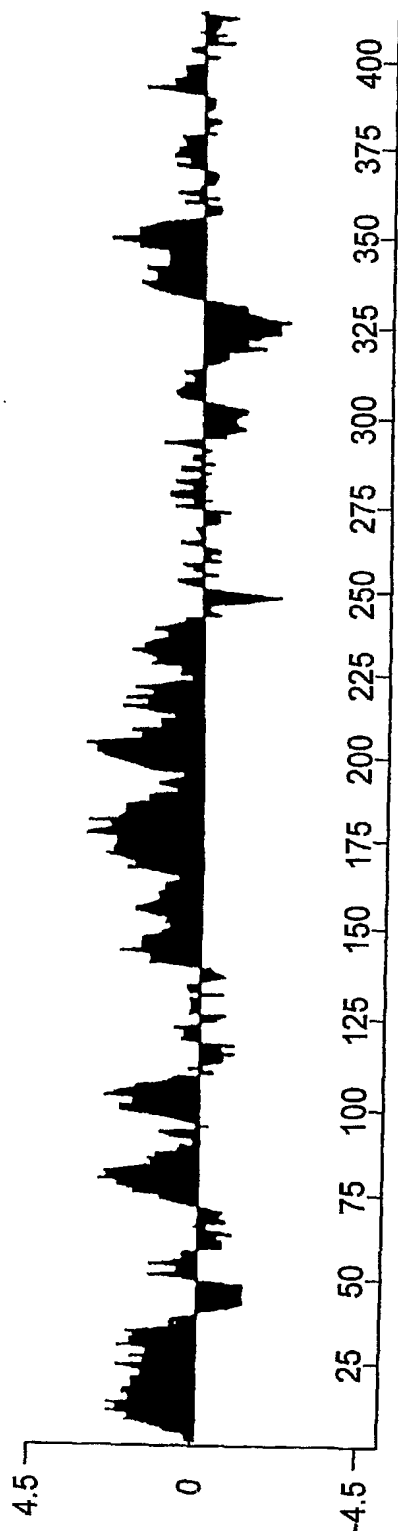
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L G V A D I I D C V V L A S S S	332
GAGGCCACAGAGACATCCCAGGAGCTCCGGCTCCGGGTGCAGGGGAAG	1056
CTCCGGTGTCTCTGTAGGGTCCTCGAGGCCGAGGCCACGTCCCCTTC	
E A T E T S Q E L R L R V Q G K	348
GAGAAACACCAGATGTTGGAGATCTCACTGTCTCCTGATTCTCCTCTT	1104
CTCTTTGTGGTCTACAACCTCTAGAGTGACAGAGGACTAAGAGGAGAA	
E K H Q M L E I S L S P D S P L	364
AAGGTTCTCATGTCACACTATGAGGAAGCCATGGGACTCTCTGGACAC	1152
TTCCAAGAGTACAGTGTGATACTCCTTCGGTACCCTGAGAGACCTGTG	
K V L M S H Y E E A M G L S G H	380
AAGCTCTCCTTCTTCTTTGATGGGACAAAGCTTTCAGGCAAGGAGCTG	1200
TTCGAGAGGAAGAAGAACTACCCTGTTTCGAAAGTCCGTTCTCTCGAC	
K L S F F F D G T K L S G K E L	396
CCAGCTGATCTGGGCCTGGAATCCGGAGATCTCATCGAAGTCTGGGGC	1248
GGTCGACTAGACCCGGACCTTAGGCCTCTAGAGTAGCTTCAGACCCCG	
P A D L G L E S G D L I E V W G	412
TGAAGCTCTCACCCTGTTTCGGACGCAAAGCCAAGACATGGAGACAATA	1296
ACTTCGAGAGTGGGACAAGCCTGCGTTTCGGTTCTGTACCTCTGTTAT	
GCTCCCAATTTTATTATTGTGATTTTTCGCCCCATAAGGGCTAACAGA	1344
CGAGGGTTAAAATAAACACTAAAAAGCGGGGTATTCCCGATTGTCT	
AACTGAATTAGAACTTGTTTACTTATTTATTTCTGGTGCTGGGGATTG	1392
TTGACTTAATCTTGAACAAATGAATAAATAAAGACCACGACCCCTAAC	
AACCCAGACTATGCACATGCTAAGGATGTATGAAGTGGAGGCAAAAC	1440
TTGGGGTCTGATACGTGTACGATTCCTACATACTTCACCTCCGTTTTG	
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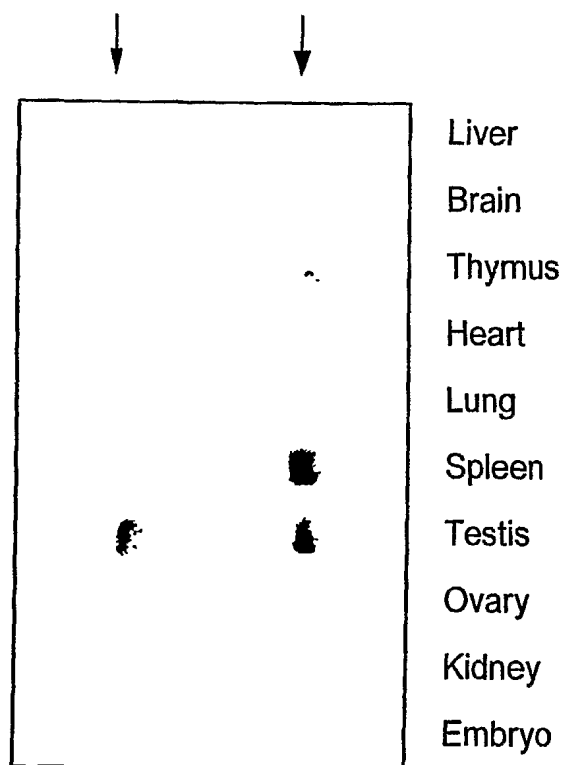
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ACGTTTCGCTGGTGCCCTTTCCTTCATCAGATGACTTCTGTGAAGCTGC TGCAAGCGACCACGGGAAAGGAAGTAGTCTACTGAAGACACTTCGACG	1632
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CCTGGGGTTTGTGCCGCGAGTTGGAGCCAGCAGTGACTTCACTCTGACT GGACCCCAAACACGGCGTCAACCTCGGTCGTCACTGAAGTGAGACTGA	1728
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TAACAGAAGGTGACATACATGCTGAAGCTGAGGACTAGGTCGAAAGTT ATTGTCTTCCACTGTATGTACGACTTCGACTCCTGATCCAGCTTTCAA	1824
AACGACGTTGCATTTTCAGCCTTGGGTATCCTCTCTGCCTGCCAGGAC TTGCTGCAACGTAAAAGTCGGAACCCATAGGAGAGACGGACGGTCCTG	1872
TCTAGCCAGTGTCTGGTACACACTTCTTGGCATGGACACCTAGGTCTGA AGATCGGTCACAGACCATGTGTGAAGAACCGTACCTGTGGATCCAGCT	1920
CGCGGGCGCGATTTCGGCCGACTCGAG GCGCCCGCGCTAAGCCGGCTGAGCTC	1946

Fig. 4D

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*Fig. 5*

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*Fig. 6*

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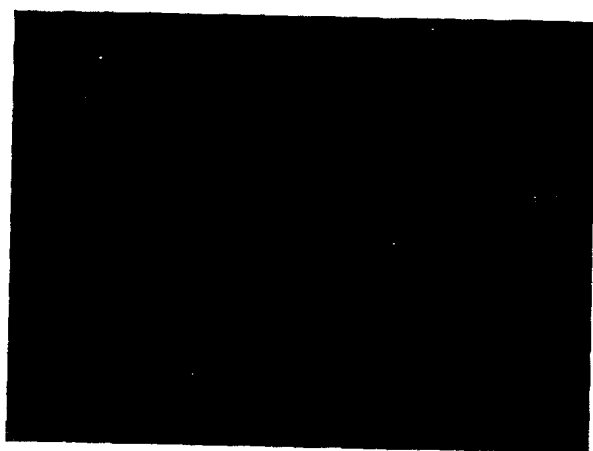


Fig. 7A

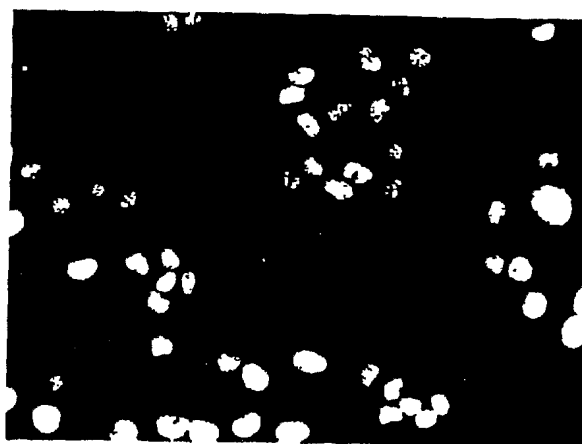


Fig. 7B

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Fig. 7C

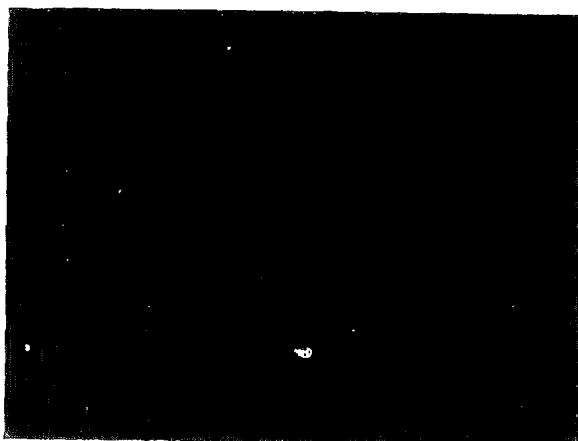


Fig. 7D

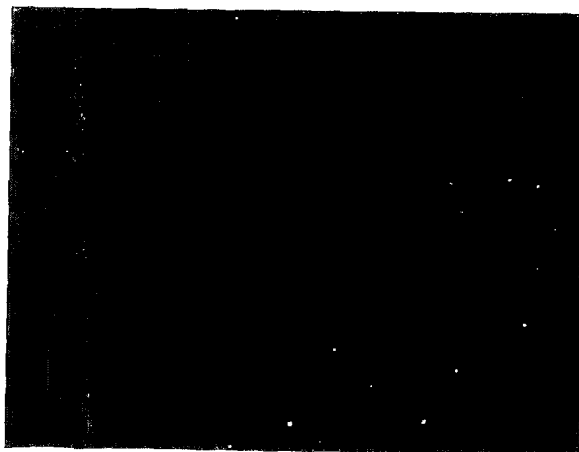
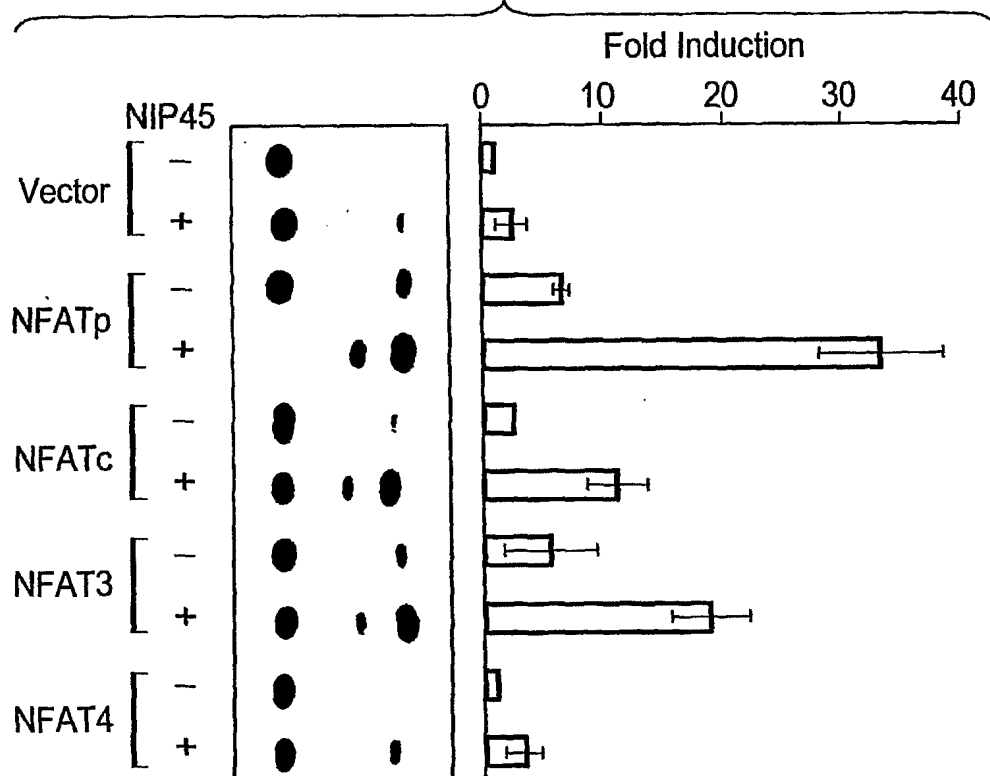


Fig. 7E



Fig. 7F

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Fig. 8

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Fig. 9

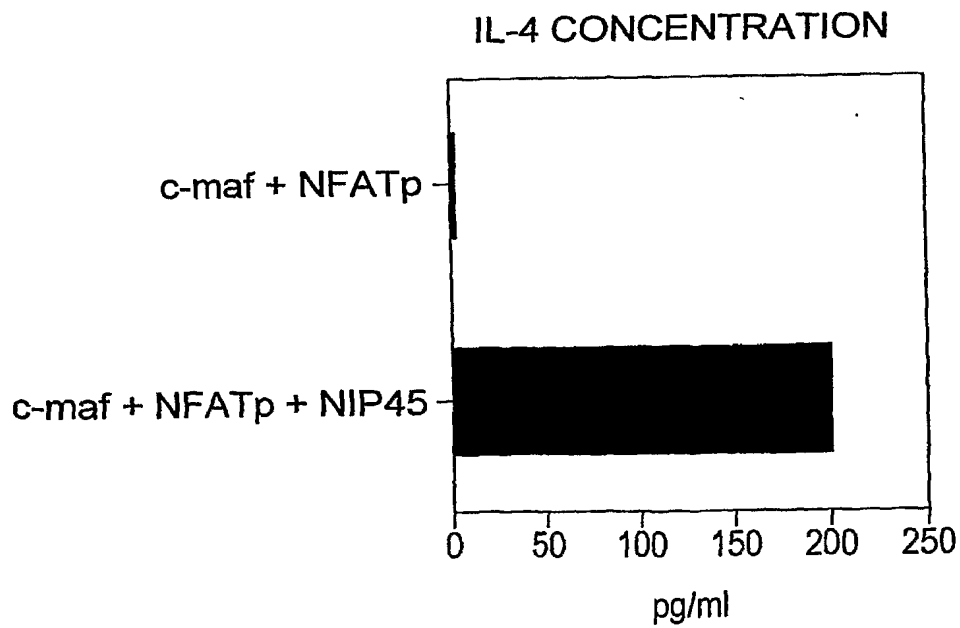
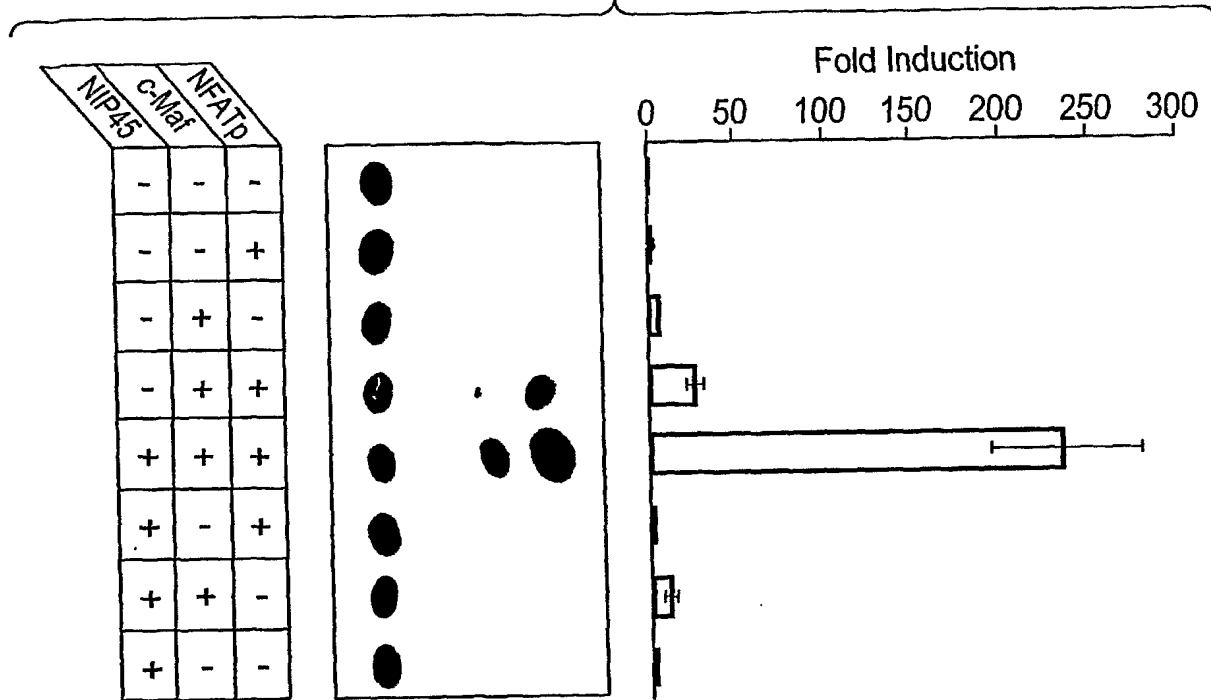
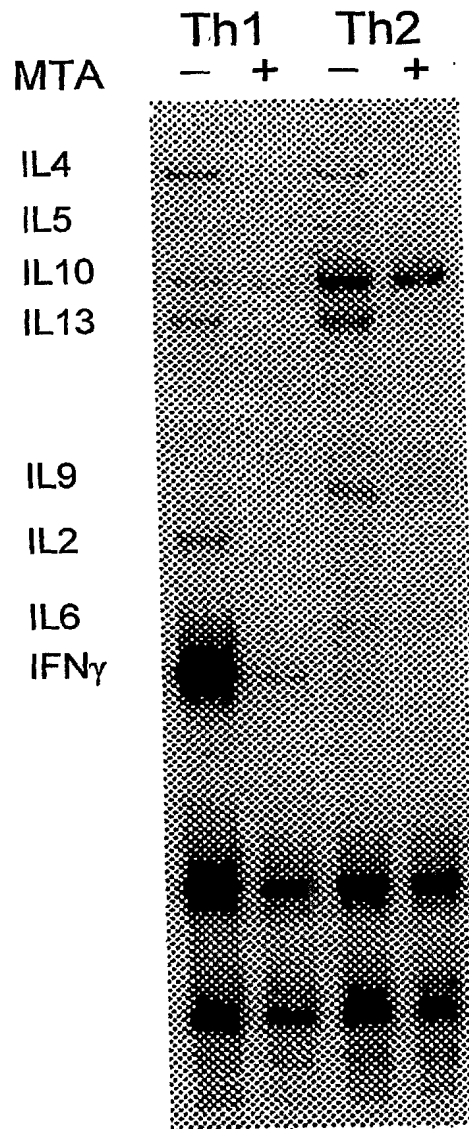
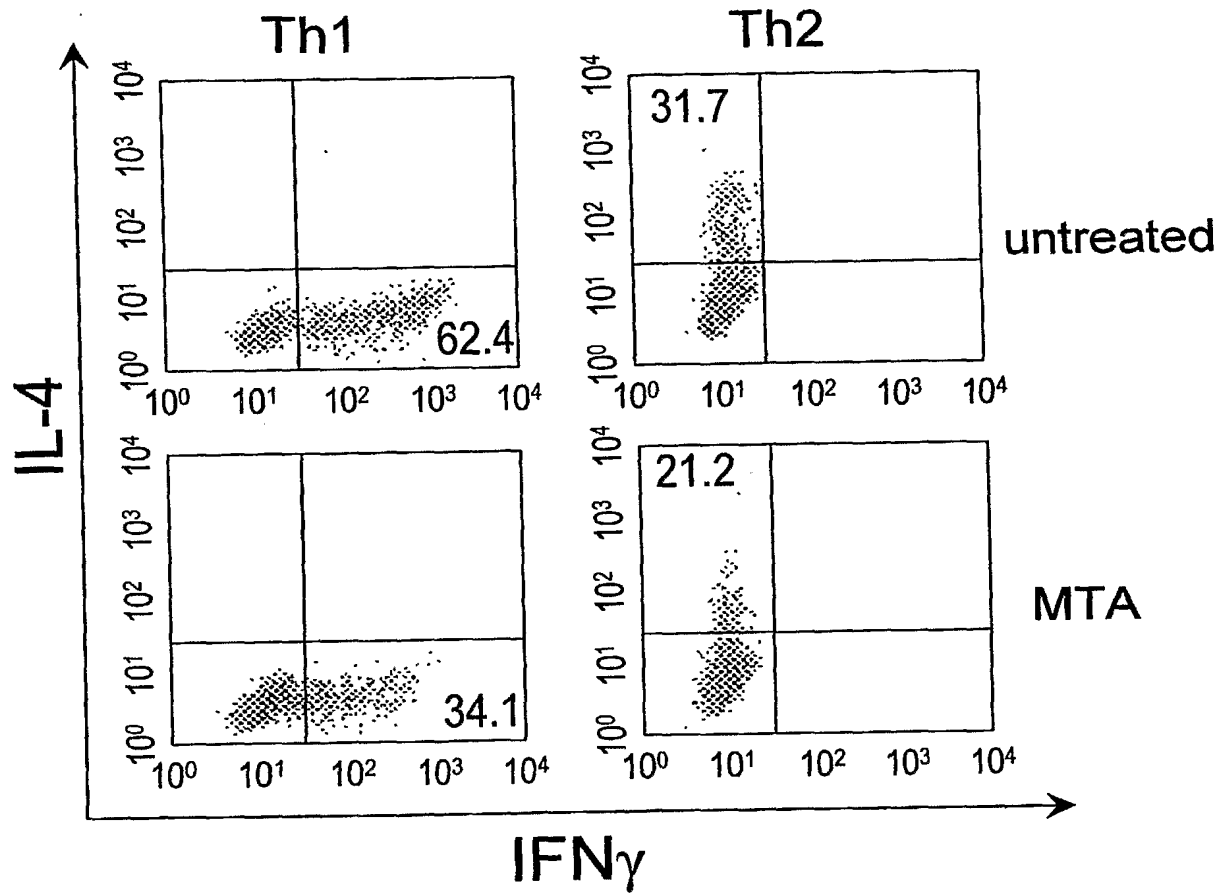


Fig. 10

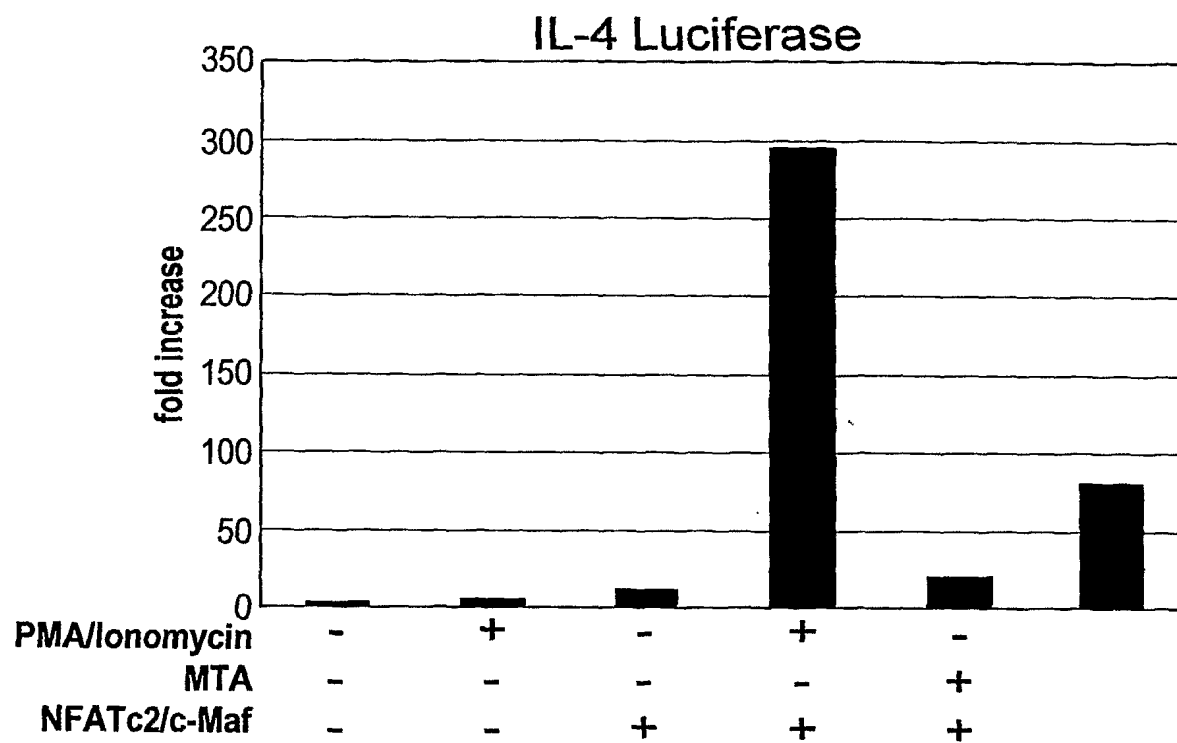
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*Fig. 11A*

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*Fig. 11B*

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*Fig. 11C*

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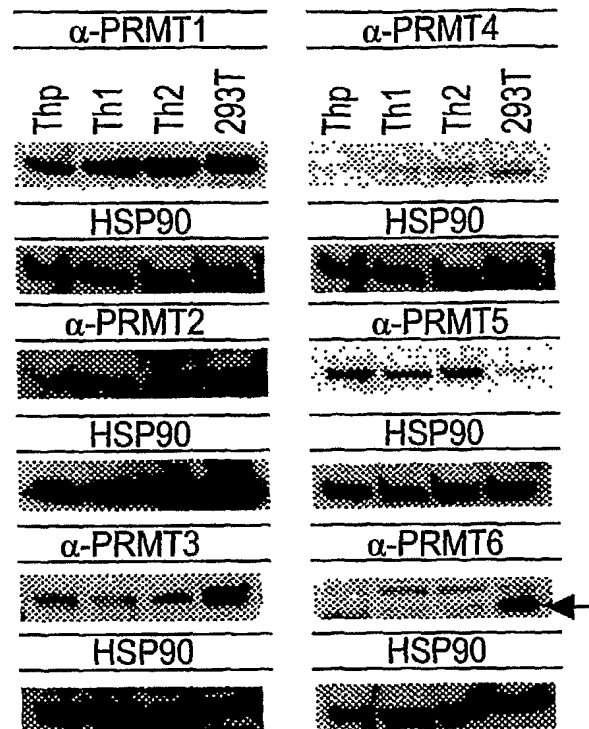


Fig. 12A

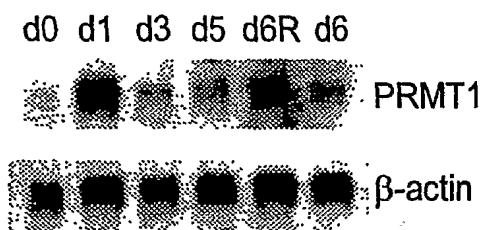


Fig. 12B

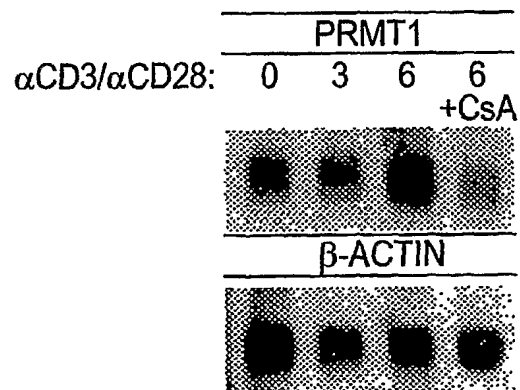
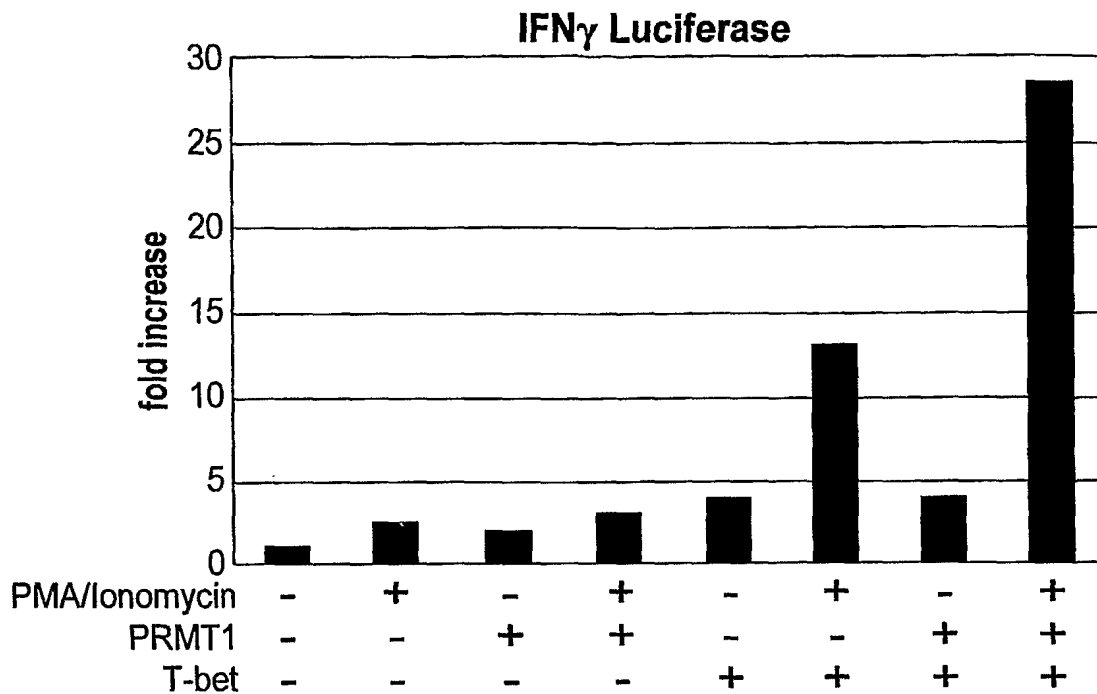
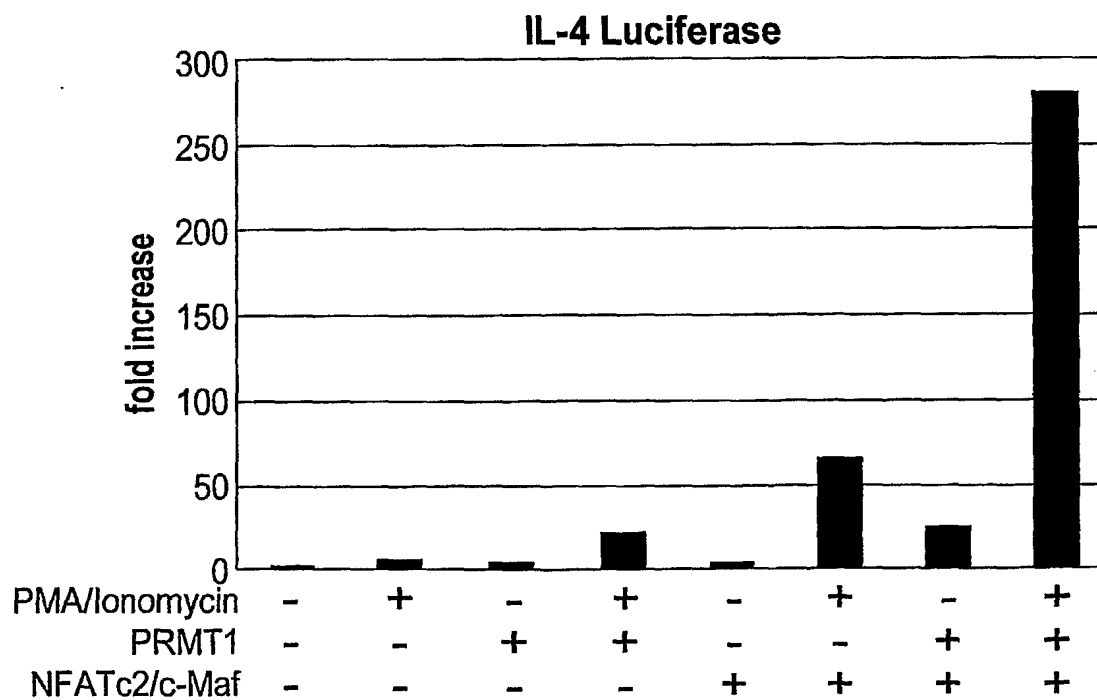
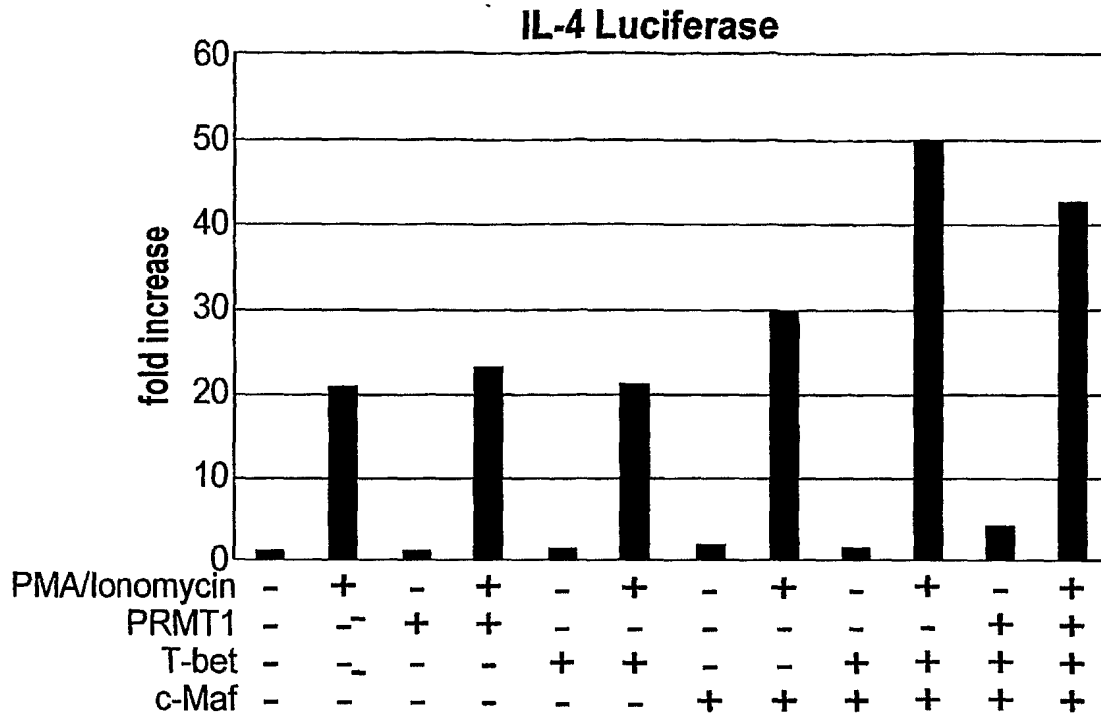
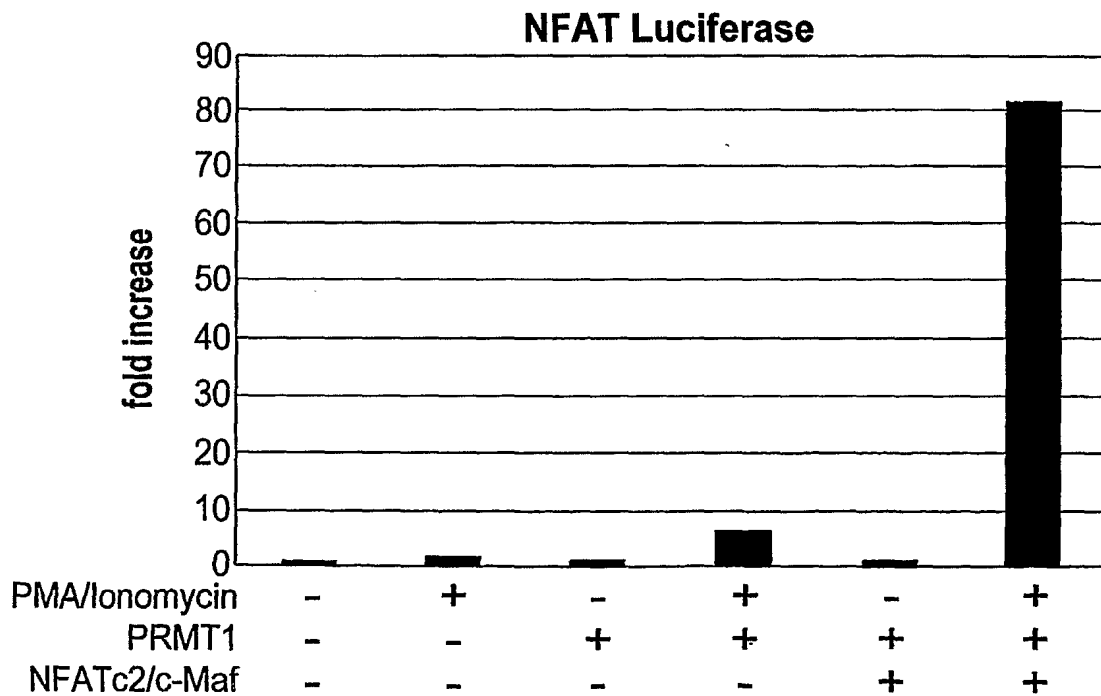


Fig. 12C

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*Fig. 13A**Fig. 13B*

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*Fig. 13C**Fig. 13D*

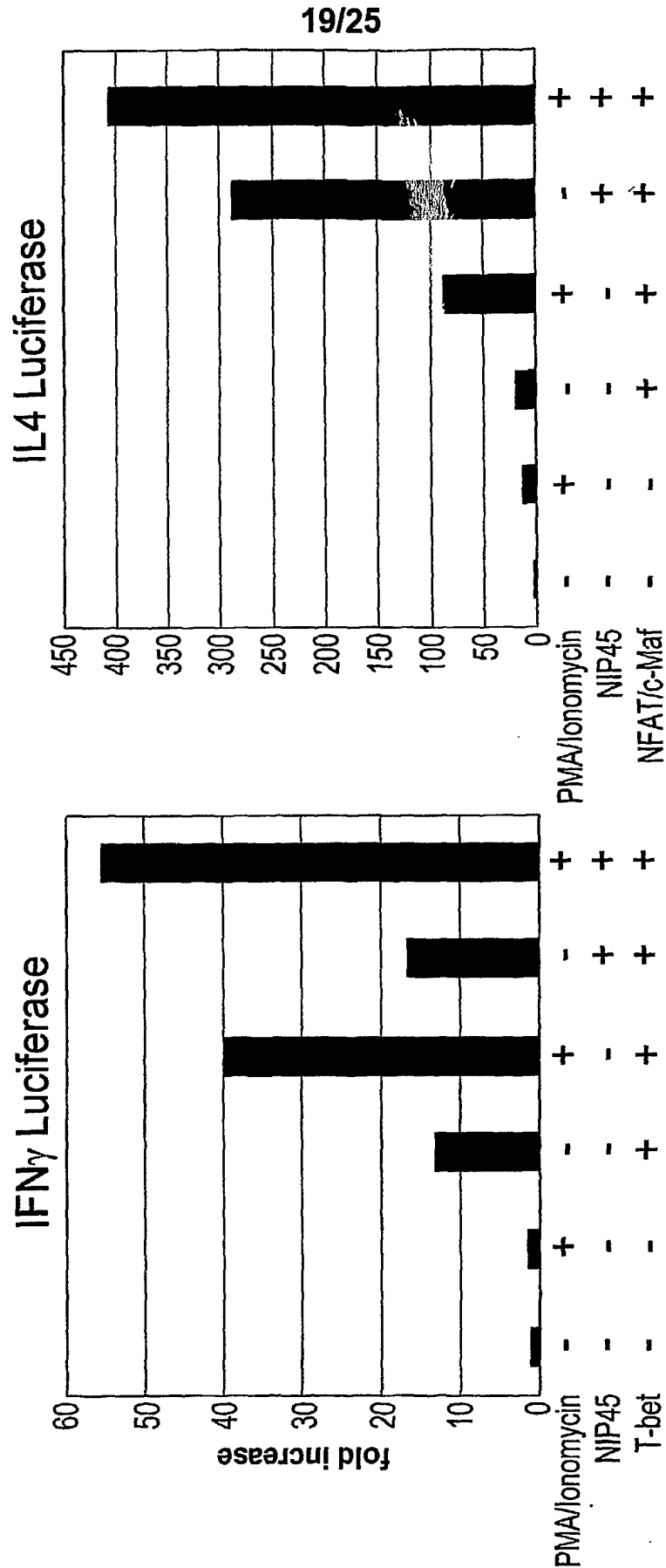


Fig. 14A

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MAEPLRGRGPRSRGGRGARRARGARGRCPRARQ
SPARLIPDTVLDLVSDSDEEVLEVADPVEVPVARLP
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LDPGEAPVVPVYSGKVQSSLNLIPDNSSLLKLCPS
PEDEADLTNSGSSPSEDDALPSGSPWRKKLRKKCE
KEEKKMEEFPDQDISPLPQPSSRNKSRKHTEALQKL
REVNKRLQDLRSCLSPKQHQSALQSTDDEVVLVE
GPVLPQSSRLFTLKIRCRADLVRLPVRMSEPLQNVV
DHMANHLGVSPNRILLFGESELSPTATPSTLKL
GVA
DIIDCVVLASSSEATETSQELRLRVQGKEKHQMLEIS
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TKLS
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Fig. 14B

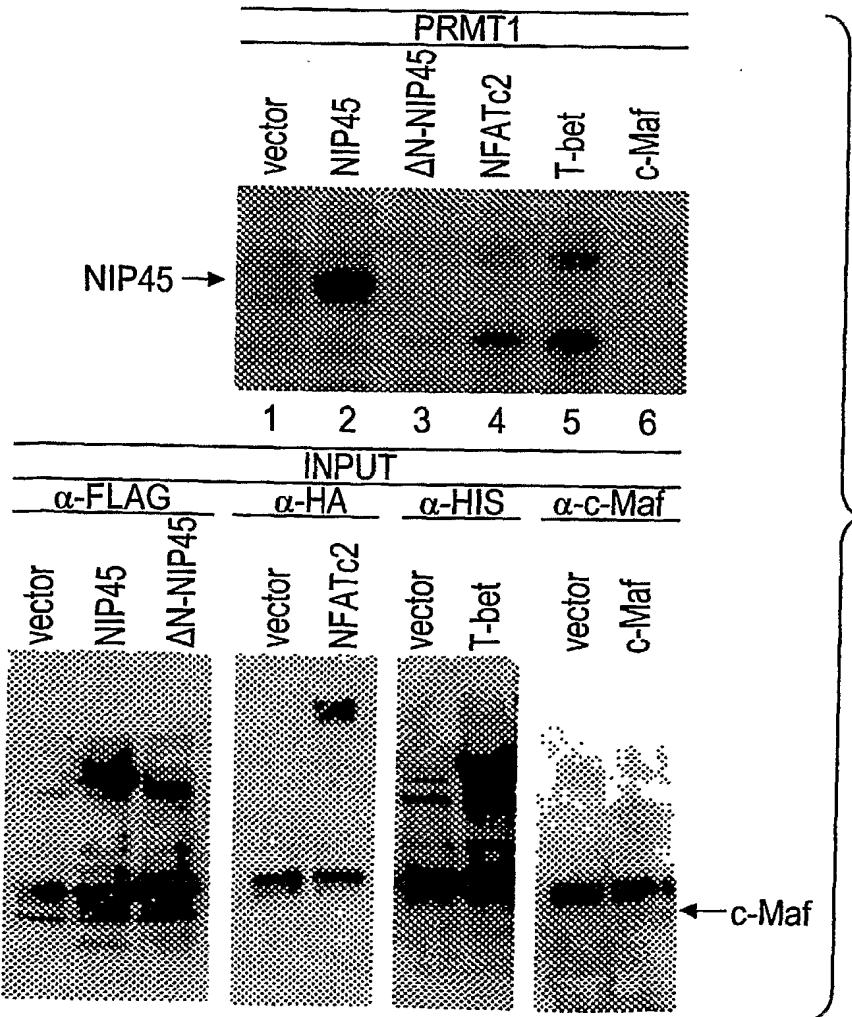


Fig. 14C

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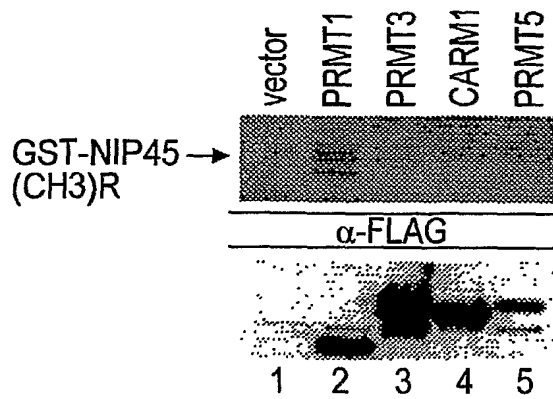


Fig. 15A

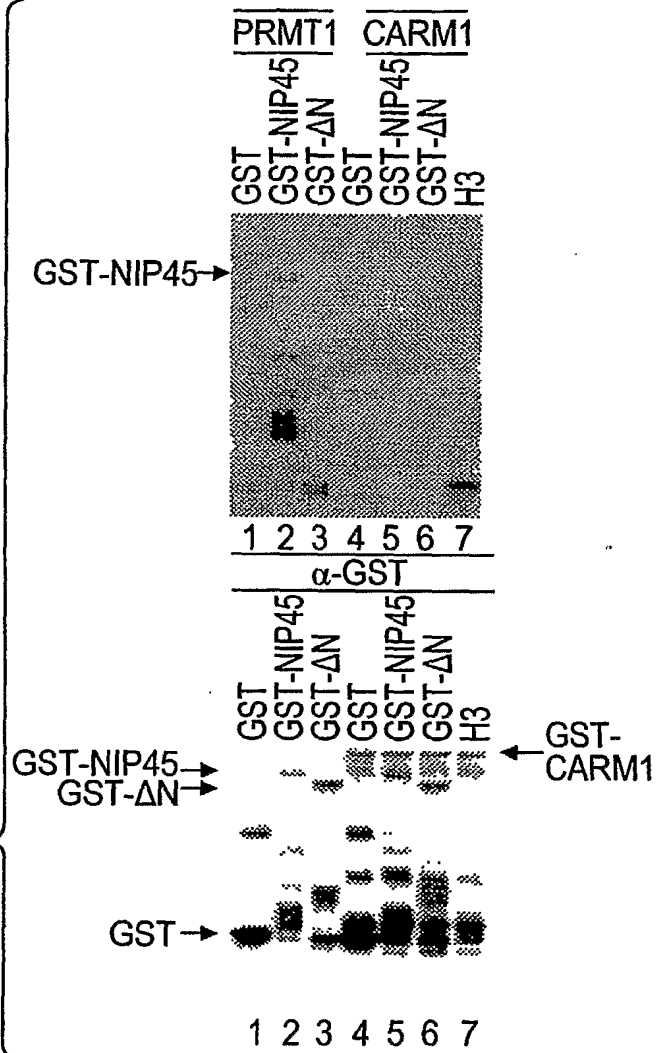


Fig. 15B

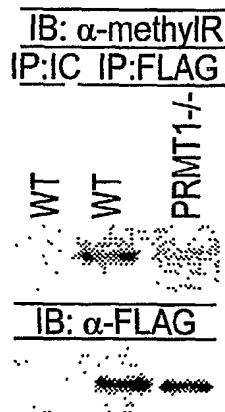


Fig. 15C

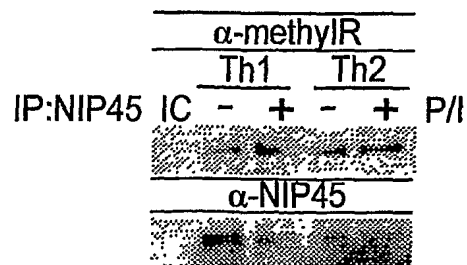


Fig. 15D

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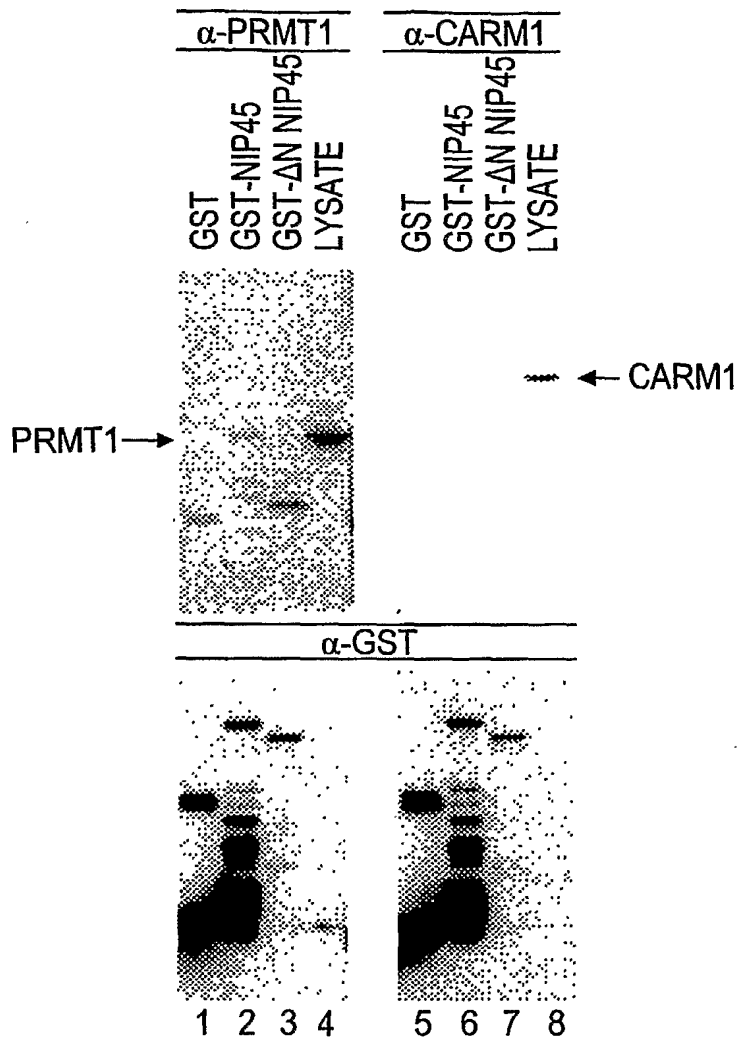


Fig. 16A

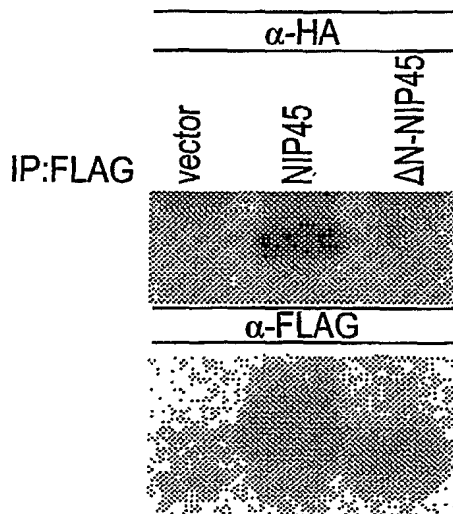


Fig. 16B

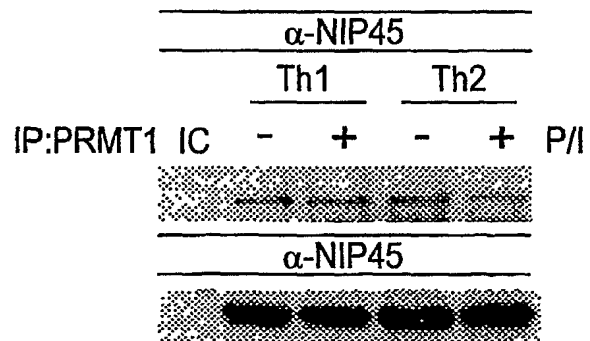
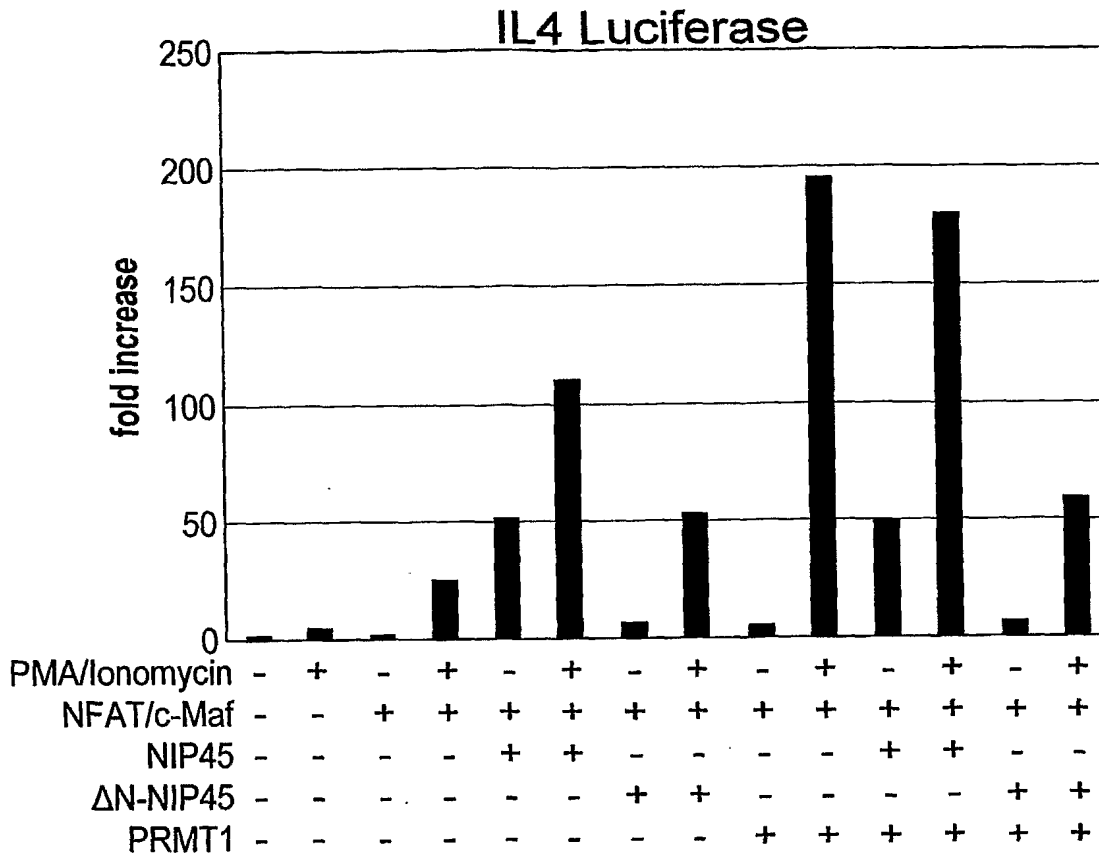
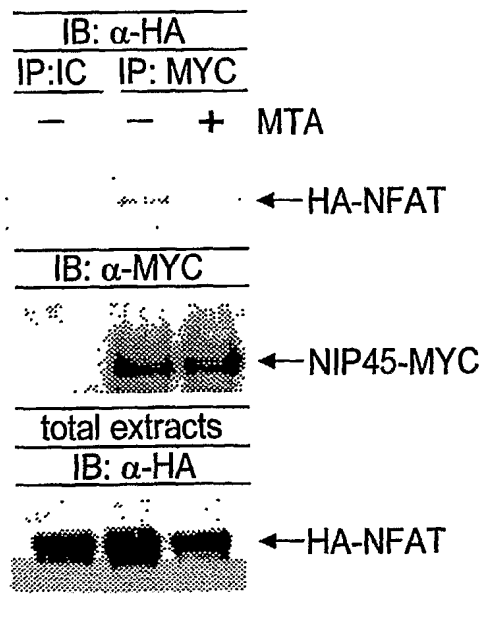
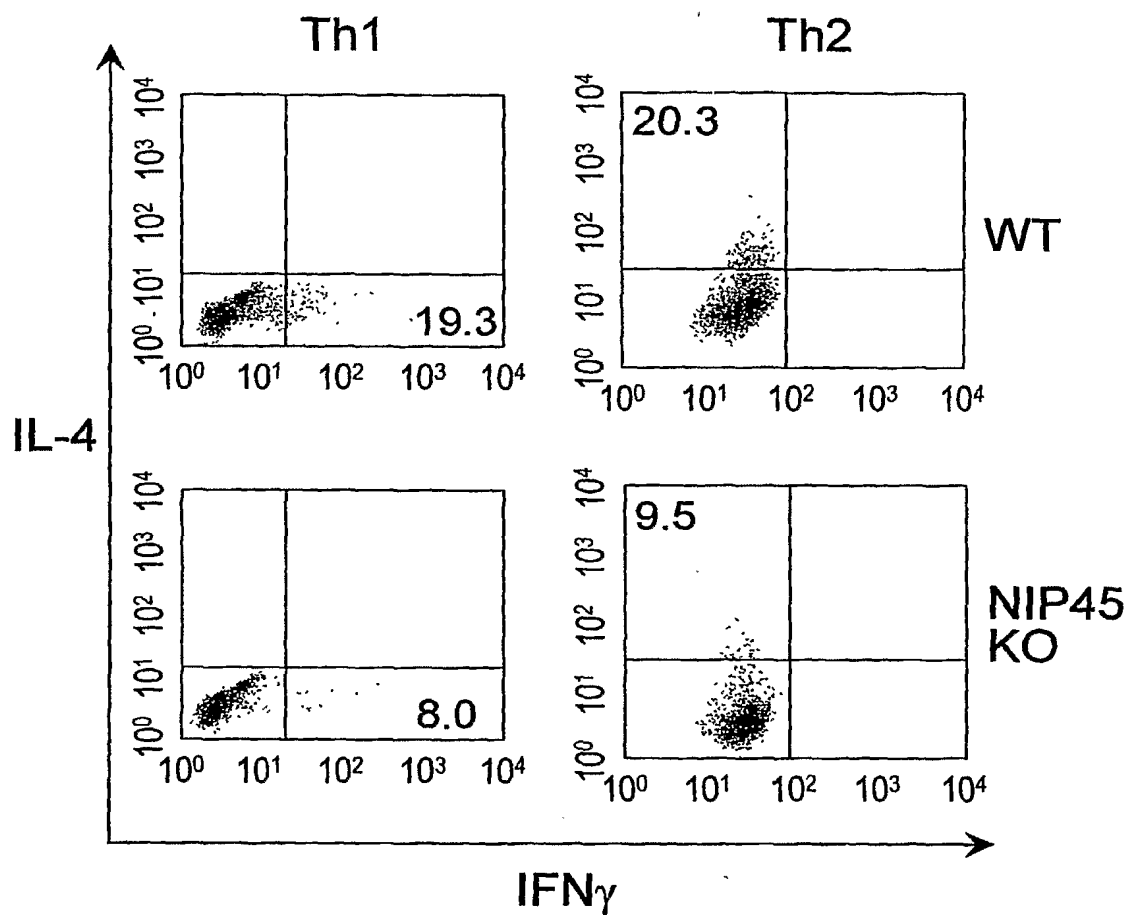


Fig. 16C

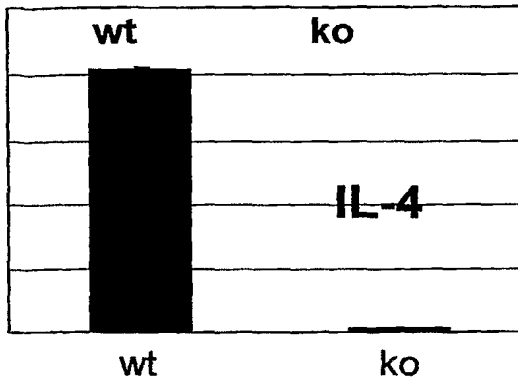
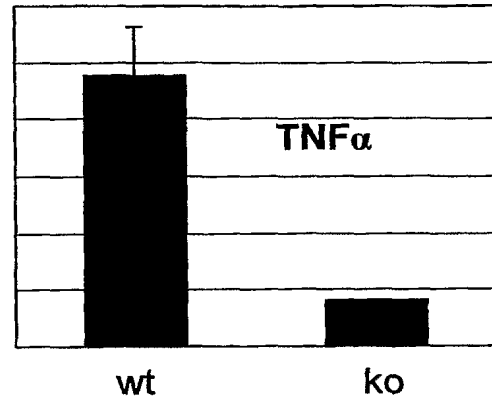
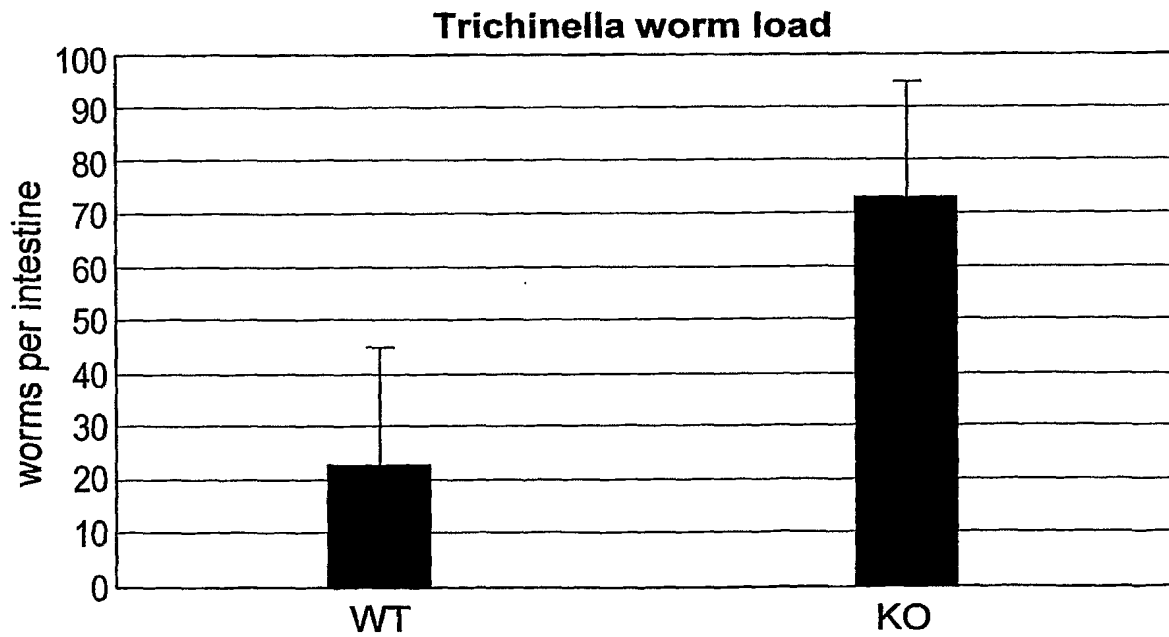
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*Fig. 17A**Fig. 17B*

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*Fig. 18A*

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*Fig. 18A**Fig. 18B**Fig. 18C*